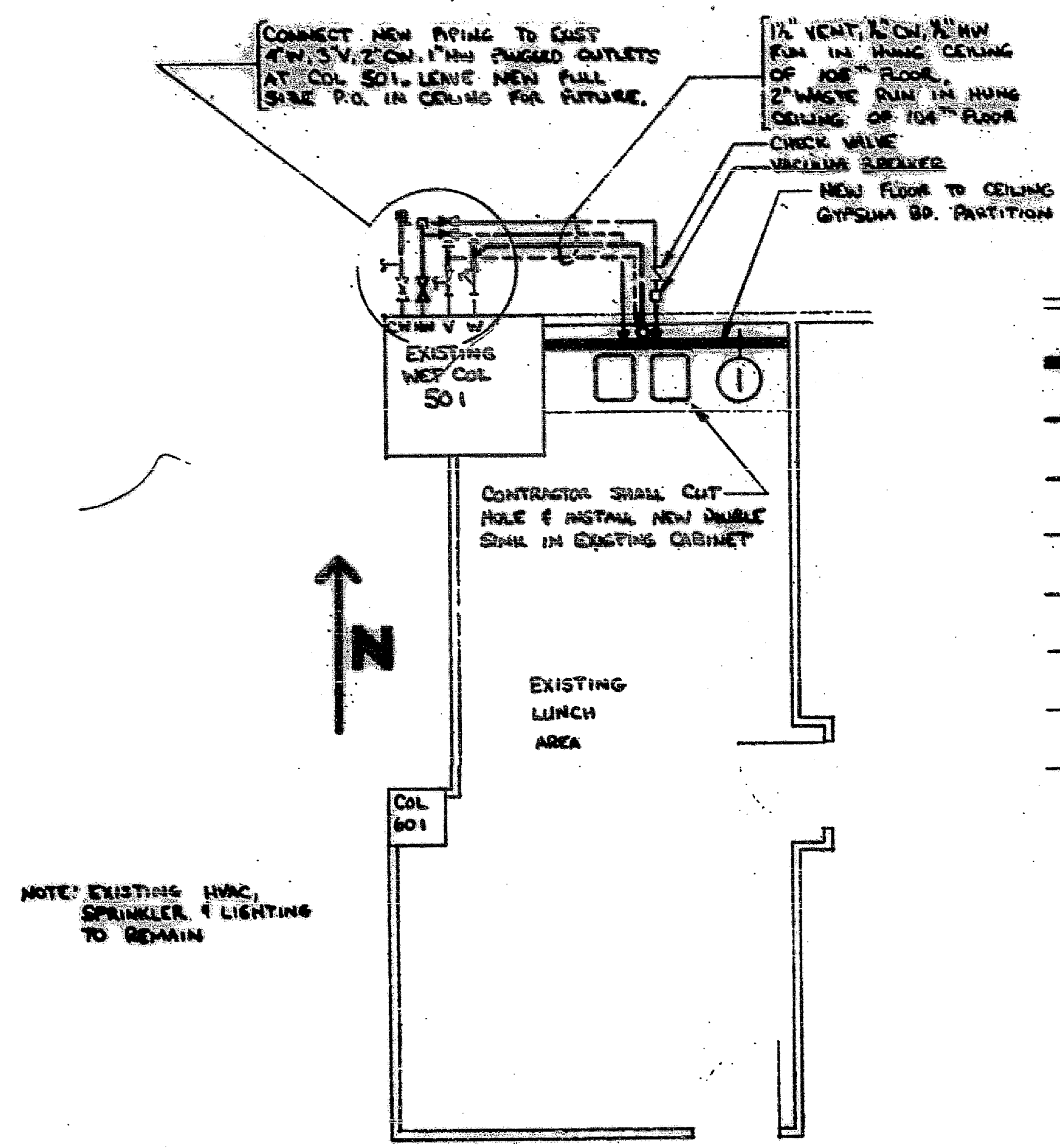


DRAWING NUMBER
A-105
Cantor Fitzgerald
A-1

DRAWING NUMBER
A-105
Cantor Fitzgerald
A-1

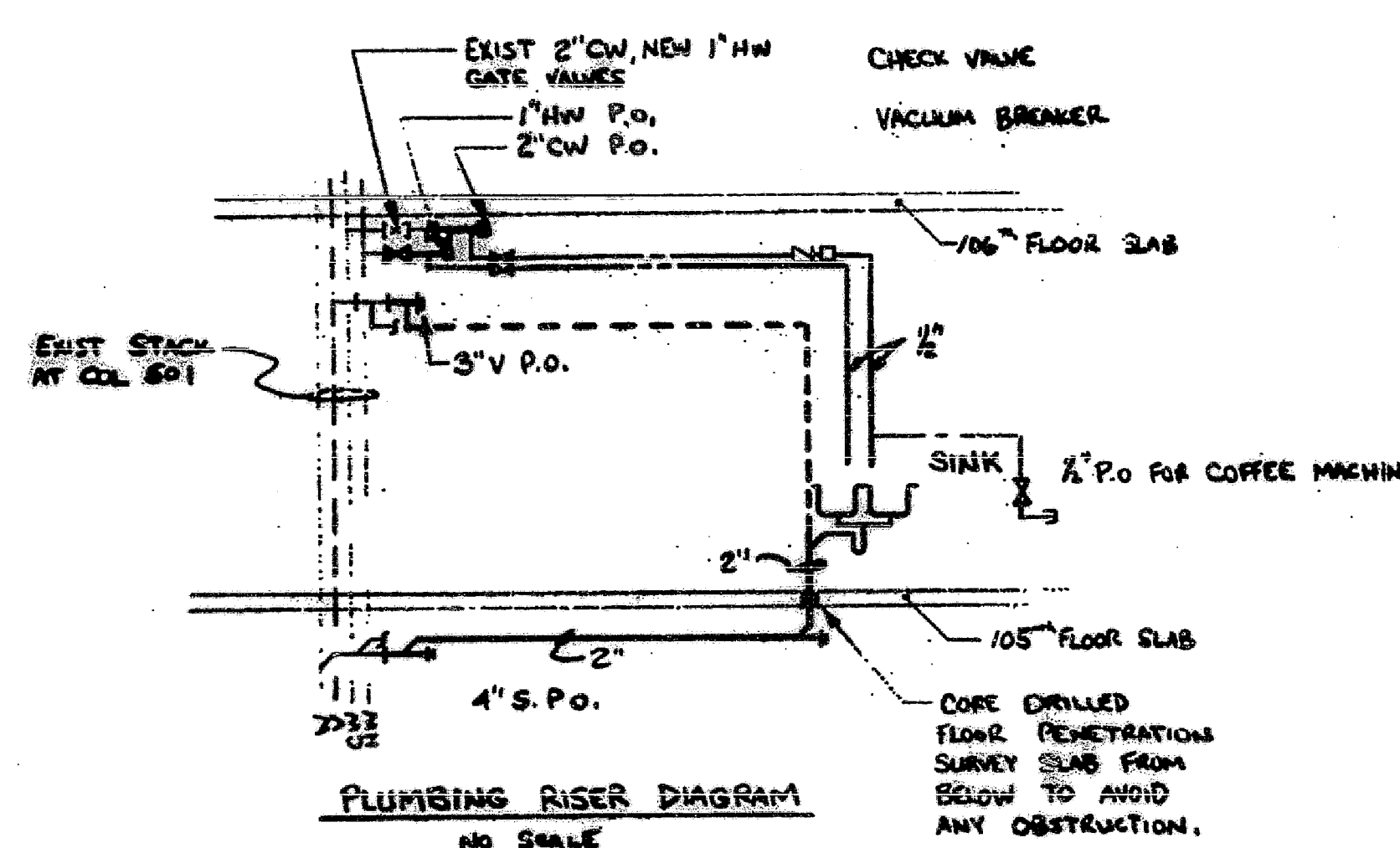
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Cantor Fitzgerald
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DRAWING NUMBER
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Cantor Fitzgerald
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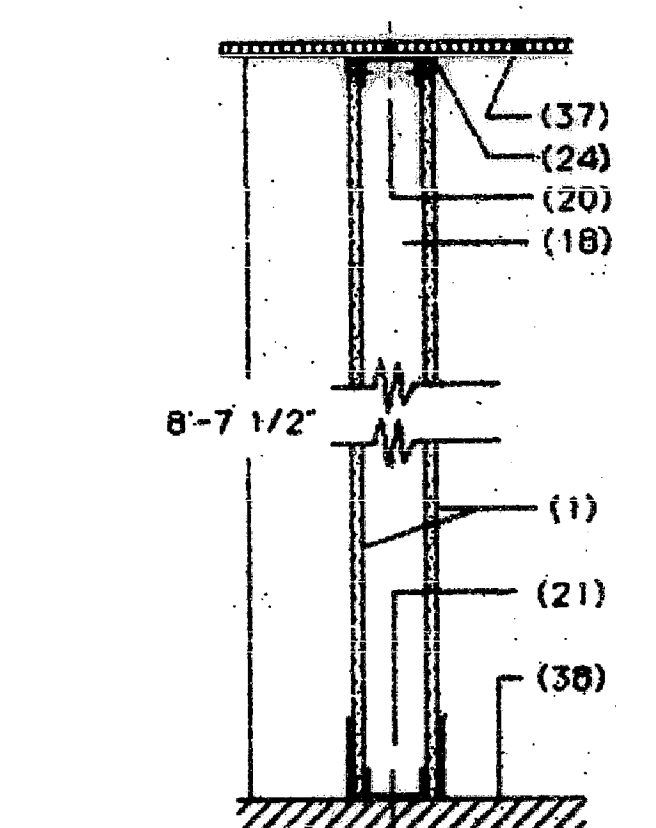
NOTE: EXISTING HVAC, SPRINKLER, & LIGHTING TO REMAIN

105th FLOOR PART PLAN
1/8" = 1'-0"



PLUMBING RISER DIAGRAM
NO SCALE

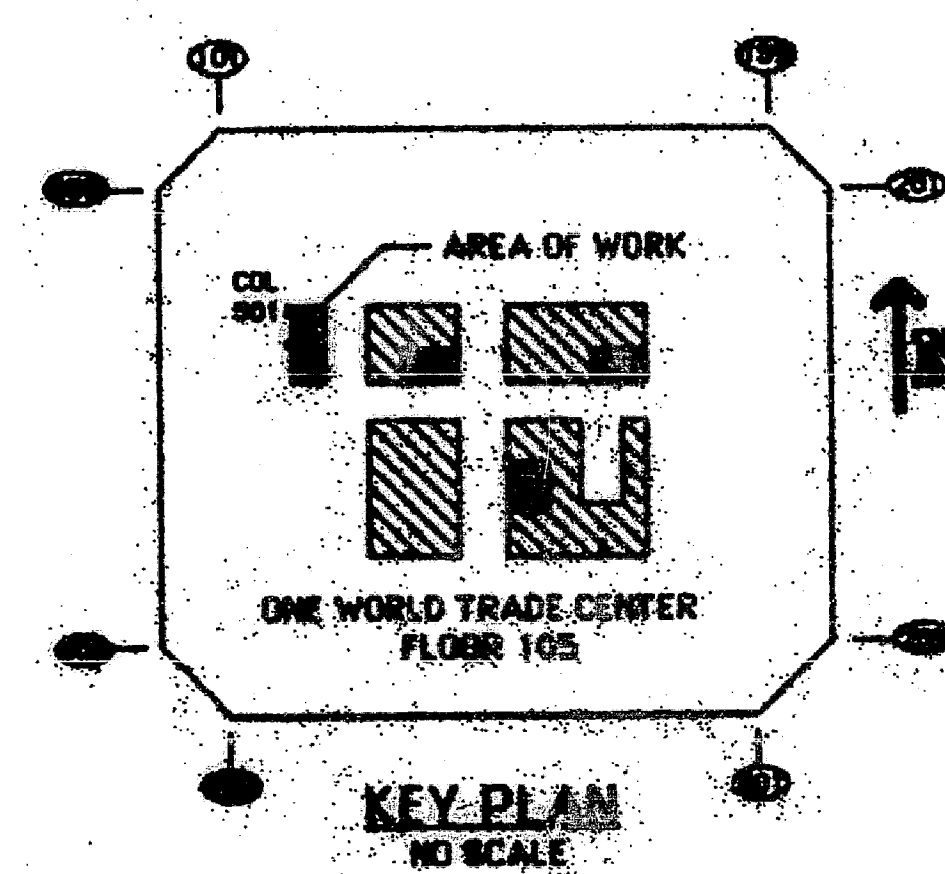
- LEGEND**
- ===== EXISTING PARTITIONS TO REMAIN
 - ===== NEW FLOOR TO CEILING PARTITION
 - ===== NEW WASTE PIPING
 - NEW VENT PIPING
 - NEW COLD WATER PIPING
 - NEW HOT WATER PIPING
 - ◇--- NEW GATE VALVE
 - ◇--- EXIST GATE VALVE TO REMAIN
 - ◇--- NEW CHECK VALVE



TYPICAL DETAIL OF PIPE THRU RATED WALL
NO SCALE

1 FLOOR TO CEILING PARTITION

- TYPICAL NOTES**
- (1) 5/8" THICK GYPSUM WALLBOARD, TYPE X, ONE LAYER EACH SIDE
 - (18) 2 1/2" 25 GAUGE METAL CHANNEL STUDS 16" O.C.
 - (20) 2 1/2" 25 GAUGE METAL CHANNEL RUNNERS, FASTEN TO CEILING FRAMING 12" O.C.
 - (21) 2 1/2" 25 GAUGE METAL CHANNEL RUNNERS
 - (24) 1/2" X 5/8" ANGLE TRIM, 25 GAUGE
 - (37) EXISTING CEILING
 - (38) EXISTING FLOOR



- PLUMBING SPECIFICATIONS**
1. **Waste and Vent Piping:** Schedule 40 galvanized steel, welded fittings, galvanized cast iron, reduced diameter, vent fittings, galvanized standard castable iron, threaded or no hub.
 2. **Drainage and Vent Piping:** Type "K" copper, brass or bronze fittings for brass units.
 3. **Insulation:** 1/2" thick, one piece fiberglass pipe insulation with all service jacket fittings and valves shall have pre-cut and insulation. (Flange operation not less than 25, smoke developed rating 50).
 4. **Gate Valves:** Gate Valves shall be 500, Check Valves shall be 6500FB or approved equal.
 5. **Flow Control:** Flow control shall be equipped with flow control device to limit the flow to 1/2" per second.
 6. **Pipe Penetration:** Pipe penetration shall have a trim opening cut no greater than necessary for the installation of a sleeve secured therein. Sleeve shall be 1/2" in diameter or larger than the outside diameter of the pipe and require insulation through end of sufficient length to be flush with the finished wall surface. Floor penetration shall be core or led. Annular spaces between piping and sleeves or core drilled for opening shall be packed with thermofiber and sealed to retain the fire integrity of the walls and floor with a fire-resisting compound similar and equal to Uniseal or Duxseal by W. L. Hanville Co.
 7. **All work in occupied areas** shall be performed on other than normal working hours as directed by the Engineer.
 8. **The complete plumbing installation, method of hanging, testing, etc.** shall comply with all provisions of the New York City Building Code.
 9. **Shutdown of existing system:** At the time that such closing or opening of valves and draindown becomes necessary, the Contractor shall notify the Engineer 48 hours in advance who will then make the necessary arrangements. The Contractor shall keep the shutdown time to a minimum and fireproofing shall be to a properly connected receptacle without causing damage to other work and property.
 10. **Hangers:** Clevis type, threaded iron rod, suspended from beam with beam clamps or approved alternate. No Hub - every 5 feet and other side of clamped joint - 3/8" rod galvanized steel; every 8 feet - 3/8" rod. No piping shall be hung from other piping, conduit, ductwork, etc.
 11. **Sink:** shall be Elkay model "LGR-4322-C, submit catalog cut for approval. Sink shall be furnished complete with Elkay 4124-F HI-ARC SINGLE LEVER POST MOUNTED FAUCET, w/ 10" SWING SPOUT & NOSE & SPRAY.

- CONSTRUCTION SPECIFICATIONS**
- The materials and construction of all construction shall be in accordance with the current edition of the specifications and recommendations.
- METAL STUD AND GYPSUM WALLBOARD PARTITION**
- Partitions shall be built of roll formed channel type sections fabricated of U.S.S. No. 25 gauge, galvanized sheet steel, 2 1/2" inches wide and to the longest one piece lengths available.
- Channel and floor runners shall be roll formed channel type sections fabricated of U.S.S. No. 25 gauge, galvanized sheet steel. Channel sections shall be 10" length.
- Size of wallboard shall be grade "X" fire retardant wallboard 48 inches wide and thickness indicated on the Contract Drawings and shall be of uniform quality conforming to Federal Specification SS-L-30 and to ASTM C-36 wallboard shall be furnished and installed in the longest lengths available so that wallboard panels extend vertically in one piece from floor to ceiling as required.
- Joint treatment materials shall conform to ASTM C474 and C475. Taping and seaming shall be a three (3) coat application.
- Screws for fastening wallboard to studs shall be single type Phillips head screws specifically manufactured for plaster and installation.
- Trim members shall be fabricated of U.S.S. No. 25 gauge galvanized steel and shall include corner reinforcement and casing type edge trim. Corner and edge trim members shall be in single lengths.
- PAINTING**
- Paints shall be manufactured by DuPont and Regalite, Glidden or approved equal. Paints shall be of the type specifically manufactured for application to the surface to which it is to be applied. All paint shall be applied uniformly with good clean brushes, or approved rollers. Paint shall be evenly spread and when brushes are used shall be thoroughly worked out. The work is to be performed so as to exclude dust, dirt, etc. Any damage to adjacent surfaces shall be repaired in a workmanlike manner. Finish coats shall be applied and shall be smooth, even, and free of holidays and other defects. Finishes shall be uniform in color, texture, and texture. Each coat of paint shall be of sufficient thickness to cover completely the previous coat or surface.
- New wall shall have two (2) coats of paint. Color to match existing to remain.

- NOTES**
1. The work required under this contract shall be performed on standard time unless otherwise required by other clauses of this contract or as directed by the Engineer.
 2. Before commencing work, the Contractor shall verify all conditions and dimensions in the field. Any errors or omissions shall be brought to the attention of the Engineer.
 3. Before commencing work, the Contractor shall notify the Engineer of any areas without fireproofing. All exposed structural steel and clipped-off fireproofing shall be patched or touched up with "CAFCD type D-C/F" or approved equal as directed by the Engineer.
 4. The Contractor shall not drill holes into existing slabs or structural members for the purpose of supporting any loads unless written permission is obtained from the Engineer.
 5. The Contractor shall protect the public or tenant spaces below from any damage resulting from floor drilling operations.
 6. The Contractor shall repair or replace existing construction damaged in the performance of this contract.
 7. The space around pipes, ducts, etc. penetrating rated walls, shall not exceed 1/2" and shall be packed solid with mineral wool or approved equal and be closed off by close fitting escutcheon plates on both sides of the partition as required by the NYC Building Code C26-504.5.
 8. Fire stopping shall be required by the NYC Building Code C26-504.7.
 9. All interior finishes shall comply with NYC Building Code C26-504.10.
 10. Remove and replace existing ceiling tiles as required for plumbing installation.

CANTOR FITZGERALD SECURITIES CORP.
ONE WORLD TRADE CENTER-FLOOR 105
NEW YORK, N.Y. 10045

CONSTRUCTION & PLUMBING PLAN

JOHN C. WESTRICK & ASSOCIATES
CONSULTING ENGINEERS
2110 MAPLE AVENUE
SOUTH PLAINFIELD, N.J. 07080

SCALE: AS SHOWN BY: MAC, CHK BY: JCW
DATE: 4-19-87, 5:00 PM, 8:10

Stamp: "I AM A PROFESSIONAL ENGINEER" with seal and signature.